

**GEODESIC DOME’S REPORT**

Report by: Group 23

**Introduction**

* Geodesic dome is a spherical or partial-spherical shell structure or lattice shell based on a network of great circles (geodesic) on the surface of a sphere. The geodesics intersect to form triangular elements that have local triangular rigidity and also distribute the stress across the structure. When completed, to form a complete sphere, it is a geodesic sphere. A dome is enclosed, unlike open geodesic structures such as playground climbers.

**Methodology**

Our ‘Geodesic Dome’ was built with this type of properties:

* **Functionality** means that the building must be practical and intended. It must work effectively for the purposes in which it was intended. No matter how aesthetically pleasing that a building may be, if it does not work, then it is a useless piece of hardware.
* **Firmless** means that the building must be structurally stable and be environmentally effective in offering protection from the climatic elements as well as provide an acceptable level of internal comfort.
* **Delight** means that it must be aesthetically pleasing. This is often difficult to prove or disprove but it should not be intentionally ugly.
* **Sustainability** means that we should respect the natural environment.

**Procedure**

1. Project issued by Dr. Mohd Hafizal Bin Mohd Isa
2. Formed the group
3. Do some research and references about Geodesic Dome
4. Discuss about the material’s use and the design of the Dome
5. Find the materials
6. Build the triangular structure before it form a Geodesic Dome
7. Presentation day and structural test

**Conclusion**

This activity teach all of the HBP students, who take a part in this project how to build some structure from the recycle materials to form structure that **functionality, firmless, delight and sustainability**. This program also teach us how to work in group, even we are from different major likes Architecture, Urban Planning, Interior Design, Quantity Servey, Building Servey, Building Technology and Construction Management.

